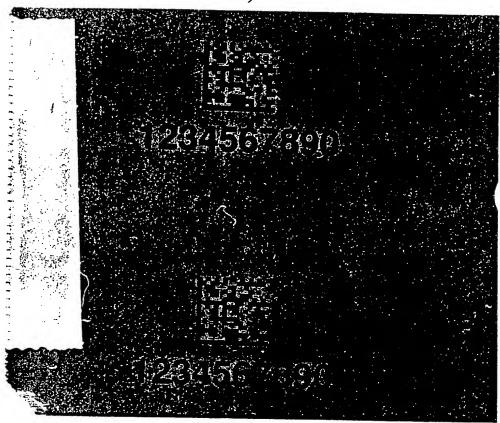


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F/G. 1

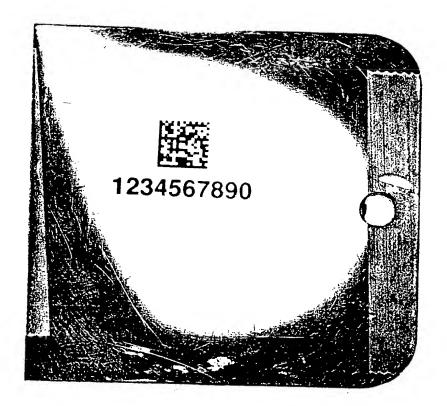
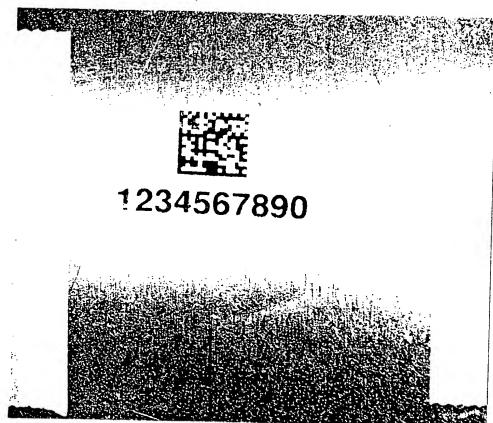


FIG.2



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F/G.3

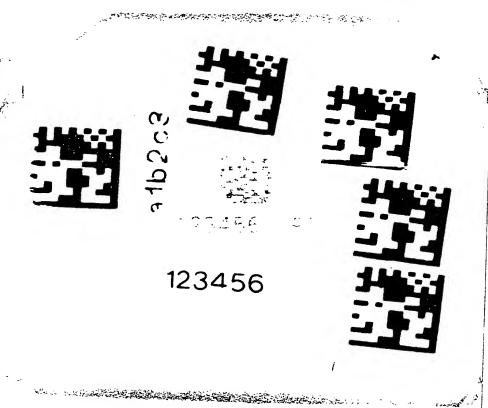


FIG. 4

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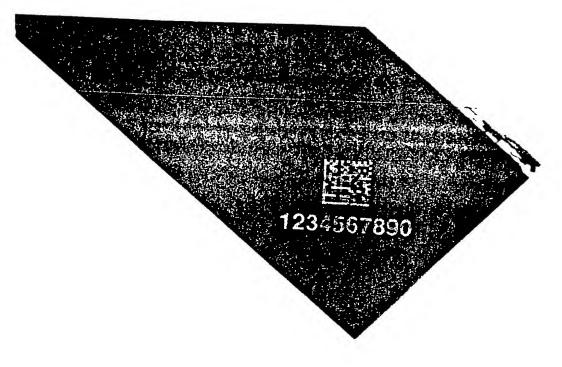


F16.5



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F/G.6

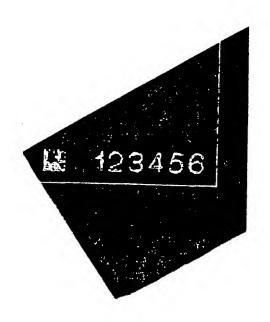


FIG.7



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Substrate Materials	Marking Materials	Beam Speed	Power (watts)	Freq (Khz/Cw)
Aluminum	Mixed Metal Oxide	200mm/sec	5 watts	CW
Aluminum	Glass Frit	250mm/sec	5 watts	CW
Brass	Mixed Metal Oxide	200mm/sec	5 watts	CW
Ceramic	Glass Frit	200mm/sec	5 watts	CW
China	Glass Frit	200mm/sec	5 watts	CW
Copper	Mixed Metal Oxide	100mm/sec	5 watts	20 KHz
Auto Safety Glass	Glass Frit	200mm/sec	5 watts	CW
CRT Display Glass	Glass Frit	200mm/sec	5 watts	CW
Flat Panel Display Glass	Glass Frit	200mm/sec	5 watts	CW
Microscope Slide Glass	Glass Frit	200mm/sec	5 watts	CW
Nickel	Mixed Metal Oxide	200mm/sec	5 watts	CW
Nylon™	Mixed Metal Oxides	250mm/sec	5 watts	CW
Porcelain	Glass Frit	200mm/sec	5 watts	CW
PVC	Mixed Organic Pigments	200mm/sec	5 watts	CW
Stainless Steel	Mixed Metal Oxide	200mm/sec	5 watts	CW
Stainless Steel	Glass Frit	300mm/sec	5 watts	CW
Teflon™	Mixed Metal Oxides	200mm/sec	5 watts	CW
Tin	Mixed Metal Oxide	200mm/sec	5 watts	CW
Titanium	Mixed Metal Oxide	200mm/sec	5 watts	CW

## FIG. 8



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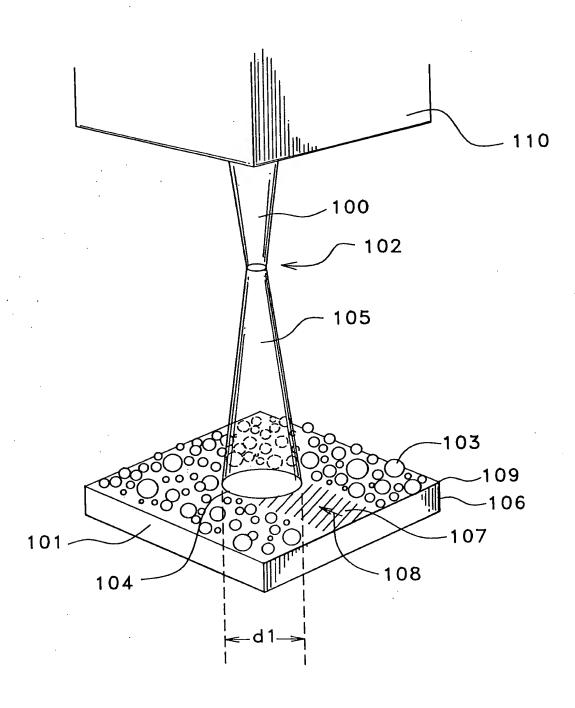


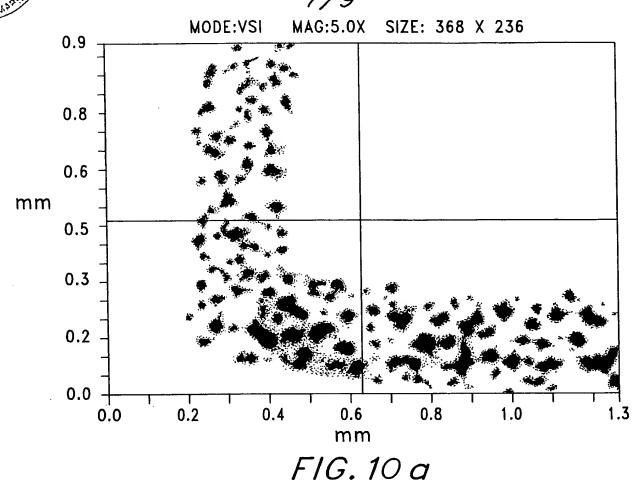
FIG.9



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Inventors: Paul Wollcott Harrison
High Contrast Surface Marking Using Irradiation of Electrostatically Applied Marking Materials
Application No. 09/880,391
Attorney Docket No.: 122656.00121

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GLASS SLIDE - PORCELAIN/GLASS FRIT

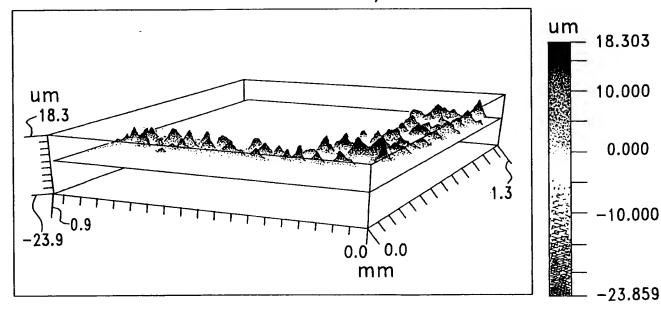
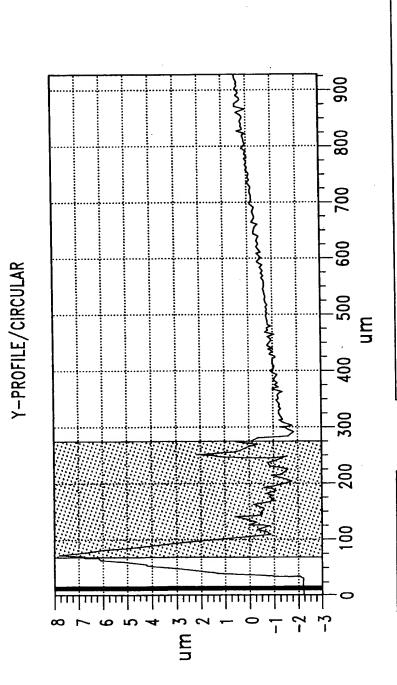


FIG. 10 b



Angle: 0.64° Curve: -14.65 mm Terms: None AvgHt: 0.61 um Area 0.17 um2 X-PROFILE/2 PT/RADIAL L: 0.05 mm -R: 0.33 mm 2 D: 0.27 mm 3 mm 2.92 um 1.97 um 14.09 um 13.17 um 

En



L: 13.93 um -2.15 um Angle: 0.98°
R: 170.62 um 0.54 um Curve: -492.76 um
D: 156.69 um 2.69 um Terms: None
AvgHt: 1.20 um
Area: 187.84 um2

Rq: 2.85 um Ra: 2.44 um Rt: 9.96 um Rp: 7.79 um Ry: -2.16 um FIG. 10 d